

DUDICH, Endre (Jr)

"Phosphatized bauxite concretions from the vicinity of Karpinsk"
by G.J. Businskij, L.J. Bogoljubova. Reviewed by Endre Dudich (Jr).
Foldt koal 93 no.2:253-254 Ap-Je '63.

DUDICH, Andre... (Jr)

"Stages of development of outer geospheres and sedimentary
rock formation in the history of the earth" by N.M. Sstrahov
[Strakhov, N.M.] Reviewed by Dudich (Jr). Foldt koal 93
no.2:263-265 Ap-Je '63.

DUDICH, Endre, dr. (Jr); HORISZT, Gyorgy

Geological survey of the vicinity of Devecser and the
border area of the Little Alfold. Foldt kozl 94 no. 2
10-26 Ja-Mr '64.

DODICH, Endre, dr. (Jr); SZALOSINE JENAI, Margit

Dolomite rocks in the Eocene series of the Bakony Mountains.
Foldt kozl 94 no.2:250-253 Apr-June '64.

MARCHENKO, A.S., hand. taking work; DUDK, E.F., inst.

Using clayey soil for the formation of harbor areas.

Transp. strof. 15 no.11:21-22 N '65.

(MIRA 18:11)

DUDICH, Z.Z., kand.ekon.nauk

Preferential growth of the production of the means of production
in a socialist society. Sbor.nauch.rav.Bel.politekh.inst. no.52:
2-23 '56. (MIRA 13:4)
(Economics)

DUDICH, Z.Z., dotsent, kand.ekonomicheskikh nauk; MUKHIN, A.T., dotsent, kand.
istorich. nauk

Department of Social Sciences. Sbor.nauch.trud.Bel.politekh.inst. no.
66:66-71 '57.
(MIRA 16:9)

1. Zaveduyushchiy kafedroy politicheskoy ekonomii Belorusskogo politekhicheskogo instituta imeni Stalina (for Dudich). 2. Zaveduyushchiy kafedroy istorii Kommunisticheskoy partii Sovetskogo Soyuza Belorusskogo politekhicheskogo instituta imeni Stalina (for Mukhin).

DUDICH, Z.Z., dotsent, kand.ekonomich. nauk; RAKOV, Ya.G., prof.; KHACHA-
TRYANTS, I.T., dotsent, kand.tekhn.nauk

Increasing labor productivity in the construction industry. Sbor.
nauch.trud.Bel.politekh.inst. no.66:221-239 '57. (MIRA 16:9)

DUDIK, F. S.

Systematic Botany

Dissertation: "Biological Characteristics, Means of Improvement, and Utilization of Georgina." Cand Biol Sci, Kiev State U ineni T. G. Shevchenko, 15 Mar 54. (Pravda Ukrainy, Kiev, 5 Mar 54)

SO: SUM 213, 20 Sept 54

DUDIK, P.S.; KHARCHENKO, Ye.D.

Growing cannabis from seed. Trudy Bot.sada AN URSS 3:151-153 '55.
(Cannas) (MLA 1016)

USSR / Cultivated Plants. Ornamental.

M-8

Abs Jour: Ref Zhur-Biol., No 6, 1958, 25271

Author : ~~Dudik, F. S.~~

Inst : Not given

Title : Dahlia Seedling Cultures

Orig Pub: Tr. Botan. sada, AN USSR, 1957, 4, 99-107

Abstract: The larger number of dahlia varieties set a considerable quantity of seeds when pollinated freely. The technique of seed picking, storing conditions, sowing methods are reported. Dahlias raised from seed blossom in the very first year. The relation between the beginning of flowering in the dahlia and sowing time is represented in the table. Those plants raised from seed which are obtained by free pollination are not homogeneous. Dahlias raised from seed in the first year form strong tubers. In

Card 1/2

USSR / Cultivated Plants. Ornamental.

M-8

Abs Jour: Ref Zhur-Biol., No 6, 1958, 25271

Abstract: the past 7 years several hundred new hybrid forms have been obtained as a result of selection. The different ripening times of pollen and pistils render self-pollination nearly impossible. It is noted that it has not been possible to obtain dahlia varieties which combine only the desirable characteristics of the parents with artificial hybridization. Besides this, not all maternal plants yield seeds upon hybridization; with free pollination by a mixture of various varieties, the original varieties set seeds and yield interesting forms. Data is presented on the induline content in dahlia tubers. The harvest of dahlia tubers in seedling culture yields 7-15 t. per ha.; the induline output averages 14% of the dry weight of the tubers.
-- N. S. Lebedeva

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151

DUDIK, F.S. [Dadyk, F.S.]; KEARCHENKO, K.D.

Planting time of perennial flowers. Visnyk Bot.sada AN URSS no.1:
75-78 '59. (MIRA 13:8)

(Perennials)

DUDIK, F.S. [Dadyk, F.S.]

Flowering of treelike dahlias. Visnyk Bot.sada AN URSR no.1:
79-84 '59. (MIRA 13:8)
(Kiev--Dahlias)

DUDIK, F.S.

Collection of tulips at the Botanical Garden of the Academy of
Sciences of the Ukrainian S.S.R. Visnyk Bot. sada AN URSS
no. 2:17-23 '60.

(MIRA 14:4)

(Kiev—Tulips—Varieties)

DUDIK, K.

Some remarks concerning the technology of Vickers pumps. p. 267.

MECHANIK. Warszawa, Poland. Vol. 12, nos. 1-2, 7-9, 12; Jan.-Feb., July-Sept.,
Dec. 1957.

Monthly List of East European Accessions, (EEAI) LC, Vol. 9, no. 2, Feb. 1960.
Uncl.

DUDIK, L. [Dudyk, L.], insh.

Let's introduce new economical materials and elements. Sil'.
bud. 11 no.4:8-10 Ap '61. (MIRA 14:6)
(Ukraine--Construction industry)
(Barns)

COLOVNYA, V.D. [Holovnia, V.D.]; DUDIK, Ye.F. [Dudyk, I.F.];
STOYANOV, A.V.

Some characteristics of bulked yarns. Meh.prom. no.1:
10-12 Ja-Mr. '64. (MIRA 19:1)

DUDIKOV, N.K.

Portable device for testing spark plugs. Avt.prom. 28 no.1:
46-47 Ja '62. (MIRA 15:2)

1. Nauchno-issledovatel'skiy eksperimental'nyy institut
avtofraktornogo elektrooborudovaniya i priborov.
(Spark plugs—Testing)

ZHIVUKHIN, S.M.; DUDIKOVA, E.D.; KIREYEV, V.V.

Synthesis and study of organostannoxanes. Part 1. Zhur.ob.khim.
31 no.9:3106-3111 S '61. (MIRA 14:9)

1. Moskovskiy khimiko-tekhnologicheskii institut imeni D.I.
Mendeleyeva.

(Tin organic compounds)

ZHIVUKHIN, S.M.; DUDIKOVA, E.D.; TER-SARKISYAN, E.M.

Synthesis and study of organic stannoxanes. Part 2. Zhur.ob.khim.
32 no.9:3059-3061 S 162. (MIRA 15:9)
(Tin organic compounds)

ZHIVUKHIN, S.M.; DUDIKOVA, E.D.; KOTOV, A.M.

Synthesis and study of polyorganostannanes. Zhur.ob.khim. 33
no.10:3274-3277 O '63. (MIRA 16:11)

DUDIC, M.H.

Development of the progeny of exceptionally high gum-yielding trees,
Pinus nigra, whose seeds have been treated with radioactive cobalt 60.
Olas prir mat SAN no.253:43-52 '60. (EEAI 10:5)

(Austrian pine) (Cobalt)
(Radioisotopes) (Gums and resins)

DUDIK, Nina Mikheylovna; GRISHKO, M.M., akademik, otv.red.; KHRUSH,
A.I., red.lid-vn; SKLYAROVA, V.Ye. [Skliarova, V.IE.];
tekhn.red.

[Chrysanthemums for outdoors] Khrysantemy vidkrytoho hruntu.
Kyiv, Vyd-vo Akad.nauk URSR, 1958. 70 p. (MIRA 13:1)

1. AN USSR (for Grishko).
(Chrysanthemums)

DUDIK, N.M.

Best chrysanthemum varieties grown in the open ground from the collection of the Botanical Garden of the Academy of Sciences of the Ukrainian S.S.R. Trudy Bot.sada AN URSS 5:88-96 '58.
(MIRA 12:2)

(Kiev--Chrysanthemums--Varieties)

DUDIK, N.M. [Dudyk, N.M.]

Growth and development of greenhouse chrysanthemums depending on
the length of the photoperiod. Visnyk Bot.sada AN USSR no.1:
69-74 '59. (MIRA 13:8)

(Chrysanthemums) (Greenhouse plants) (Photoperiodism)

DUDIK, N.M. [Dudyk, N.M.]

Storage length of cut chrysanthemums grown in open ground. Visnyk
Bot. sada AN URSR no. 2:79-80 '60. (MIRA 14:4)
(Chrysanthemums) (Cut flowers—Storage)

KALININ, A. (poselok Mel'nichnyy Ruchey, Leningradskoy obl.); POPKOV, V.,
inzh. (Khar'kov); PERETS, P. (Bronnitsy, Moskovskoy obl.);
KUZNETSOV, P. (Leningrad); MATVEYENKO, I., mekhanik (Alatyr');
KALINICHENKO, M. (Leningrad); IKKERT, G. (Otradnyy, Kuybyshevskoy
obl.); DUDIKOV, N.; BUKANOV, A.

Readers suggest. Za rul. 21 no.7:18-19 J1 '63. (MIRA 16:8)
(Motor vehicles--Technological innovations)

84354

15.8116 2109, 2209

S/191/60/000/008/005/014
B004/B056AUTHORS: Zhivukhin, S. M., Dudikova, E. D.TITLE: Silanols¹ and Their Transformations. Report I. Diphenyl-
silanediol and Its TransformationPERIODICAL: Plasticheskiye massy, 1960, No. 8, pp. 23-25

TEXT: The authors first give a brief review of studies on the synthesis and transformations of silanols. They mention papers by N. N. Sokolov, V. A. Astakhin, M. M. Kotton, K. A. Andrianov, and B. N. Breytman, N. S. Nametkin, A. V. Topchiyev and F. F. Machus, M. F. Shostakovskiy, and D. A. Kochkin. The authors aimed at giving a precise description of the conditions for the synthesis of silanols, the study of their transformations and their combination with other organic substances. Diphenylsilanediol, with which the present paper deals, was obtained by the hydrolysis of diphenyldichlorosilane in a mixture of toluene, water and isoamyl alcohol, the best yields being obtained at 0 - 5°C. The melting point of the white diphenylsilanediol crystals fluctuates between 132° and 148°C because of inseparable anhydride forms, and increases to 152°C

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Silaneols and Their Transformations. Report I.
Diphenylsilanediol and Its Transformation

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B004/B056

because of condensation when stored for a length of time. The condensation of diphenylsilanediol was carried out at 150°C (molecular weight, 780-4080), 190°C (molecular weight, 2200-4650), and 230°C (molecular weight, 2870-4890). The melting points were between 30° and 60°C. Further, this compound was combined with: 1) with adipic acid (5 h at 190°C; ratio between the components, 1 : 1). The acid number decreased from 331 to 147.5, and a brittle yellowish substance with a molecular weight of 1390 was obtained. 2) With azelaic acid (1 : 1, at 190° and 230°C), a yellow wax-like substance formed which had a molecular weight of 1470. 3) With sebacic acid at 190° and 230°C, a brown wax-like substance was formed. With succinic and glutaric acids no stable products were obtained. The solubility differing from the components and the analyses confirmed the formation of condensates, and not of mixtures of the individual components. There are 16 references: 6 Soviet, 7 US, and 3 German.

X

Card 2/2

158150

27511
S/079/61/031/009/012/012
D215/D306

AUTHORS: Zhivukhin, S.M., Dudikova, E.D., and Kireyev, V.V.

TITLE: Synthesis and study of organostannoxanes. I.

PERIODICAL: Zhurnal obshchey khimii, v. 31, no. 9, 1961,
3106 - 3111

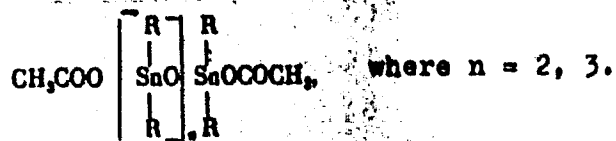
TEXT: The present work was conducted to investigate the possibility of producing polyorganostannoxanes from certain dialkyltin dichlorides of the general formula R_2SnCl_2 where $R = C_2H_5$ and C_3H_7 .

The starting materials were obtained by K.A. Kocheshkov's method (Ref. 9: Sinteticheskiye metody v oblasti metalloorganicheskikh soyedineniy. Izd. AN SSSR, v. 5, 1947). Alkyltin acetates were prepared by reacting the corresponding dialkyltin dichloride with an acetate in an aqueous medium. Under such conditions, however, the acetates formed decomposed giving products of hydrolysis and condensation, i.e. compounds of the type

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The reaction was carried out at 0°, 20° and 50°C. Compounds obtained at 50°C did not dissolve completely in benzene due to the admixtures of diethyltin oxide, but the yield corresponded to maximum. Compounds obtained at 0 and 20°C were soluble in organic solvents. To prevent the formation of diethyltin oxide the reaction was carried out at pH < 7. Preparation of polypropylstannoxanes is most suitable conducted at 50°C when up to 70 % yields are obtained. Further experiments were concerned with increasing the molecular weight of the acetates prepared by subjecting them to the action of moisture containing air, in vacuum at different temperature over a period of 3 - 32 hrs. The resulting products were waxy

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solids soluble or partially soluble in organic solvents, some of their properties, in relation to the conditions of treatment, are given in Table 2. The molecular weight increases were, however, small and the treatment resulted mainly in decreases of solubility. The analysis of insoluble residue, from the treatment of polyethylstannoxane at 180-185°C, showed the increase of the oxygen content with simultaneous reduction of carbon and hydrogen contents. It may, therefore, be assumed that ethyl radicals bonding molecular chains were substituted by oxygen atoms, in the process involving the reaction of organic radicals linked to tin atoms with weak organic acids and the formation of the corresponding hydrocarbons. Acetic acid liberated during the condensation promotes separation of alkyl radicals and formation of acetate groups in the side chains of the polymeric molecules, followed by cross-linking and production of insoluble or slightly soluble compounds. Heating of the original alkylstannoxanes and their acetates in aqueous alkali brings about deeper transformations than the expected saponification of terminal acetate groups and the resulting products are in-

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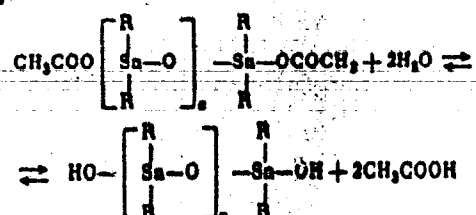
27511

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Synthesis and study of ...

soluble in organic solvents. Prolonged heating in the presence of excess water resulted in the separation of the acetic acid



The saponification products, dihydroxyalkylstannoxanes were white brittle solids with softening point of 200°C. They dissolved, with difficulty, in hot benzene and dioxane and the molecular weight of the soluble part corresponded to 900-1000. The presence of terminal hydroxyls opens the possibility of condensing these compounds with corresponding di- and poly-functional substances, e.g. polyalkylstannoxane-acetates. Polyethylstannoxane-acetates were pre-

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pared by mixing aqueous solutions of diethyltin dichloride, sodium acetate and acetic acid at 20°C. After standing for 1.5 hours, the solid was filtered, washed and dried, the yield was 54-55 %, molecular weight 700-720. Polypropyl stannoxane was similarly prepared but at 50°C, by adding dipropyltin dichloride solution in methanol to aqueous acetate. The yield was 70.5 %, molecular weight 883-914. Dihydroxypolyethylstannoxane was obtained by refluxing polyethylstannoxane acetate with water for 5 hours. After neutralizing the acid the residue was boiled for 5 hours with more water and the procedure repeated several times. The yield of product was 60 %. The dihydroxypolystannoxane obtained was then condensed with an equimolecular quantity of polyethylstannoxane acetate at 160°C for 3 hours and 200°C for 5 hours. The product was a brown transparent mass slightly softening at 250°C. There are 3 tables, and 12 references: 6 Soviet-bloc and 6 non-Soviet-bloc. The four most recent references to the English-language publications read as follows: J.C. Montermoso, T.M. Andrews, L.P. Marinelli, J. of Polymer Sci., 32, 523, 1958; T.M. Andrews, F.A. Bower, B.R. LaLiberte, J.

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27511

S/079/61/031/009/012/012
D215/D306

Synthesis and study of ...

C. Montermoso, J. Am. Chem. Soc., 80, 4102, 1958; British Patent 718,393, 1954; R. Sasin, J. Org. Ch., 20, 770, 1955.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskii institut im. D.I. Mendeleeva (Moscow Institute of Chemistry and Technology im. D.I. Mendeleev)

SUBMITTED: October 13, 1960

Table 2.

Legend: 1 - Starting compounds; 2 - reaction temperature; 3 - time of reaction (hrs.); 4 - solubility in benzene; 5 - polyethylstannoxane acetate (mol.wt. 796); 6 - 7 - polyethylstannoxane acetate (mol.wt. 796); 8 - polypropylstannoxane acetate (mol.wt. 898; 9 - polypropylstannoxane acetate (mol.wt. 898); 10 - total; 11 - cloudy solution; 12 - strongly cloudy solution, precipitate, precipitate; 13 - total; 14 - cloudy solution.

Card 6/7

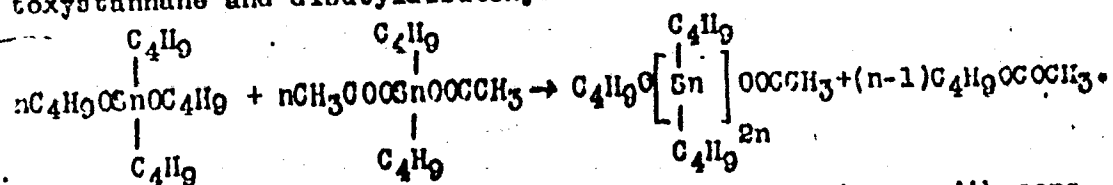
S/079/62/032/009/011/011
1048/I242

AUTHORS: Zhivukhin, S.M., Dudikova, E.D., and Ter-Sarkisyan, E.M.

TITLE: Synthesis and investigation of organostannoxanes. II

PERIODICAL: Zhurnal obshchey khimii, v.32, no.9, 1962, 3059-3061

TEXT: The first paper on this subject appeared in this publication, v. 31, 1961, 3106. This paper reports the results of an attempt to prepare polyorganostannoxanes by polycondensation of dibutyldiacetoxystannane and dibutyldibutoxystannane according to the equation



The experiments were carried out in an inert gas stream with constant stirring at 150 to 200°C. The starting materials were syn-

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S/079/62/032/009/011/011
1048/1242

Synthesis and investigation...

thesized in the laboratory. Both the rate of condensation and the final yield of butyl acetate increased, while the molecular weight of the polymer decreased with increasing reaction temperature. Thus, at 150°C the reaction was completed within 2 hrs, the yield of butyl acetate was 61.4%, and the molecular weight of the polymer was 1290 when the reaction was carried out under atmospheric pressure and 2400 in vacuo. At 180°C the reaction was completed within 1.5 hrs, the yield of butyl acetate was about 75%, and the molecular weight of the polymer was 840 under atmospheric pressure and 1610 in vacuo. The product formed at temperatures above 200°C contained a non-melting, insoluble phase whose structure needs further clarification. The polymer formed at 180°C was a brittle substance, easily soluble in benzene and its homologs, with a softening temperature of 130-140°C. The polymer formed at 150°C was a glass-like, brittle and transparent substance with good adhesion to metals and glass; its m.p. was 96-100°C, and it did not lose its melting characteristics on repeated melting-solidification cycles. There are 2 figures.

SUBMITTED: September 13, 1961
Card 2/2

DUDKOVA, YE. P.

DUDKOVA, YE. P. -- "EMISSION OF HEAT FUSION OF INORGANIC SALTS AT HIGH TEMPERATURE UNDER
CONDITIONS OF FORCED CONVECTION," SUB 12 JUN 52, POWER ENGINEERING INST IMEM
G. M. KUZNETSOVSKIY (DISSERTATION FOR THE DEGREE OF CANDIDATE IN TECHNICAL SCIENCE)

SO: VECHERNAYA MOSKVA, JANUARY-DECEMBER 1952

DUDIKOVA, Ye.P.

Heat loss coefficient of fused nitrite-nitrate salt mixtures in
turbulence conditions. Trudy NIIMI no. 24:448-451 '57. (MIRA 11:6)
(Alkali metal nitrites) (Alkali metal nitrates)

DUDIKOVA, Ye.P.

Determining temperature in heat exchange under turbulent operating conditions. Inzh.-fiz. zhur. 4 no.1:27-30 Ja '61. (MIRA 14:4)

1. Vsesoyuznyy nauchnyy inzherno-stroitel'nyy institut, Moskva.
(Heat--Transmission)

DUDILA, V.

ROMANIA/Chemical Technology. Chemical Products and Their
Application. Part 3. - Treatment of Natural Gases
and Mineral Oils, Motor and Rocket Fuel, Lubricants. H

Abs Jour: Referat. Zhurnal Khimiya, No 21, 1968, 71978.

Author : M. Dima, Eug. Popa, V. Dudila.

Inst : Iasi Polytechnical Institute.

Title : Use of Mineral Oil Fractions in Production of
Ceramic Insulators in Rumania.

Orig Pub: Bul. Inst. politehn. Iasi. 1956, 2, No 3-4., 117-128.

Abstract: Positive experimental results in substituting wood resin (used in the fabrication process of electric insulators) with fractions of Rumanian mineral oil (boiling point above 200°) with a small admixture of non-alimentary fats or industrial soap are reported.

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88266

S/170/61/004/001/004/020
B019/E056

11. 9100

AUTHOR: Dudikova, Ye. P.

TITLE: The Problem Concerning the Characteristic Temperature in Heat Exchange Under Turbulent Conditions

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1961, Vol. 4, No. 1, pp. 27-30

TEXT: The author experimentally investigates what temperature must be taken into account when estimating the heat exchange of a turbulent liquid with the wall. As coolant, a salt mixture (53% KNO_3 , 40% NaNO_2 , and 7% NaNO_3) was used, and the experimental arrangement was a continuous flow system. The experimental tube proper in this continuous flow system had a length of 114 mm, an inner diameter of 10 mm, and an outer diameter of 100 mm. As turned out when the system was checked, the effect produced by the ends could be neglected. The experiments were carried out within a wide region of the specific heat transport ($137\ 000 - 1\ 180\ 000\ \text{kcal/m}^2\cdot\text{h}$), and the experimental data were processed by setting up the function

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The Problem Concerning the Characteristic
Temperature in Heat Exchange Under
Turbulent Conditions

S/170/61/004/001/004/G20
B019/B056

$Nu/Pr = f(Re)$. It was found that, when estimating the heat exchange, the mean value between the temperature t_w of the wall and the liquid t_{fl} may be taken. If the physical parameters of the wall and liquid linearly depend on temperature, the direction of the heat flow is independent of the intensity of the heat exchange. As, however, was shown by the experiments made by the author, the error caused with a high degree of temperature dependence of the liquid viscosity, is about 5%. Thus, the above mentioned mean value may be used for technical estimates of the heat exchange. If ν_{fl} is the viscosity of the liquid at t_{fl} , ν_{mean} is the viscosity at t_{mean} , and if $J_{fl}/J_{mean} = (1 - 2.3)$ holds, the heat exchange is practically independent of the direction of the heat flow. There are 3 figures and 6 Soviet references.

ASSOCIATION: Vsesoyuznyy zaochnyy inzhenerno-stroitel'nyy institut,
G. Moskva (All-Union Correspondence Institute for Building
Engineers, Moscow)

SUBMITTED: March 12, 1960

Card 2/2

DUDIN, A.

Struggle for a human being. Prof.-tekh. obr. 22 no.3:16-18 Mr '65.
(MIRA 18:7)

1. Nachal'nik Omskogo oblastnogo upravleniya professional'no-
tekhnicheskogo obrazovaniya.

DUDIN, Arkadiy Antonovich, inzh.; LIPNITSKIY, A.M., inzh. red.;
FREGER, D.F., red. 1st-va; GVINTS, V.L., tekhn. red.

[Group technology in mechanized shell casting (five-element form of standardization); stenographic record of a lecture delivered in the Leningrad House of Scientific Technological Propaganda during the seminar of Leningrad foundrymen] Gruppovaya tekhnologiya pri mekhanizirovannom kokil'nom lit'e (piatilementnaya forma tipizatsii); stenogramma lektsii, pročitannoi v LITTP na saniatii seminaru leningradskikh li-teishchikov. Leningrad, 1962. 47 p. (MIRA 15:3)
(Shell molding (Founding))

PHASE I BOOK EXPLOITATION

80V/6106

Belopukhov, A. K., L. I. Vinberg, A. A. Dudin, M. L. Zaslavskiy, and
P. P. Moskvina

Lit'ye pod davleniyem (Die Casting). Moscow, Mashgiz, 1962. 399 p.
(Series: Inzhenernyye monografii po liteynomu proizvodstvu)
8000 copies printed.

Reviewers: N. N. Belousov, Candidate of Technical Sciences, and A. V.
Lakhtemonskiy, Engineer; Resp. Ed.: L. I. Vinberg; Ed.: L. A.
Osipova, Engineer; Tech. Ed.: V. D. El'kind; Managing Ed. for
Literature on Hot-Working of Metals: S. Ya. Golovin, Candidate of
Technical Sciences.

PURPOSE: This book is intended for engineers and scientific research
workers in the foundry industry and may also be useful to students
in schools of higher technical education.

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Die Casting

807/6106

COVERAGE: The book outlines the history of the development of the die casting process, its fundamentals, and the present state of its application. It also reviews the designs of machines, castings, and molds and the problems of automation, mechanization, and production organization. Theoretical principles which may be used for the development of the manufacturing process and for designs of new casting machines are presented. The book is based on advanced practices and achievements in the field of die casting. No personalities are mentioned. There are 117 references, 55 Soviet and 62 non-Soviet.

TABLE OF CONTENTS:

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Ch. I. History of Development and Present Status	7
1. Essentials of die casting	7
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DUDIN, A.A.

Technological requirements for the mechanisation of the chill
casting method. Alium. splay no.1:210-220 '63. (MIRA 16:11)

DUDIN, A.F., inzhener, otvetstvennyy za vypusk

[Album of diagrams for mechanists' and fitters' tools and clamping devices] Al'bom rabochikh chertezhei na slesarno-montazhnyi i sashimnoi instrument. Moskva, Trudreservizdat, 1956. 179 p.

(MLRA 10:1)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye trudovykh rezervov.

(Chucks)

DUDIN, A. F.

AUTHOR: Dudin, A.F.

127-58-5-21/30

TITLE: A New Mine Theodolite (Novyy shaktnyy teodolit)

PERIODICAL: Gornyy Zhurnal, 1958, Nr 5, pp 70-72 (USSR)

ABSTRACT: For measuring vertical angles in steeply-sloping mine workings, the mining theodolite is provided with an eccentric tube, which has essential drawbacks. The author proposed a new design which will make it possible to carry out the surveying of not only horizontal mine workings but also very-steeply-inclined workings. As is seen from Figure 1, the horizontal disk and alidade are interchanged in the new theodolite. This preserves the same accuracy of measurements, while permitting surveying in workings with a dip angle up to 86° . With the aid of this theodolite, it is possible also to conduct orientations of shallow mines. The limiting depth of a mine, the orientation of which can be made with the new theodolite, can be determined from the formula:

$$H = \frac{D}{\operatorname{tg} 5^\circ}$$

Card 1/2

where: D is the diameter of the mine shaft and 5° is the

A New Mine Theodolite

127-58-5-21/30

limiting vertical angle.
There are 3 figures.

ASSOCIATION: Shumilovskoye priiskovoye upravleniye (Shumilovo Placer Administration)

AVAILABLE: Library of Congress

Card 2/2 1. Theodolites-Design

DUDIN, D., and MAMPAL', I.

Checking live weight by a new method. Mias. ind, 23, No 4, 1952.

Dudin, D.
DUDIN, D.

In our northern regions. Mor.flet 17 no.11:10-11 N '57.
(MIRA 10:12)

1.Nachal'nik Severnogo morskogo parokhodstva.
(Arctic regions--Merchant marine)

DUDIN, F.

DUDIN, F.

Rural teachers are active public workers. Sov.profsoiuzy 2
no.7:48 J1 '54. (MLRA 7:7)

1. Sekretar' Ul'yanovskogo obkoma profsoyusa rabotnikov na-
chal'noy i sredney shkoly.
(Ul'yanovsk Province--trade unions) (trade unions--
Ul'yanovsk Province)

DUDIN, G.P.

Method for plotting primary curves of creep based on the readings
of testing instruments. Trudy Sem.po proch.det.mash. 1 no.2:85-93
'53. (MLRA 7:1)

(Creep of metals)

MYASNIKOV, Anatoliy Afanas'yevich. Prinimali uchastiye: DUDIN, I.V.,
inzh.; SATAROV, V.N., inzh.; SURKOV, A.L., inzh.; CHEBUNYAK, G.I.,
inzh.; AYRUNI, A.T., otv. red.; SMIRENSKIY, M.M., red. 12d-va;
OVSEYENKO, V.G., tekhn. red.

[Ventilation of mine workings with various coal mining systems]
Provetrivanie gorn'nykh vyrabotok pri razlichnykh sistemakh raz-
rabotki ugol'nykh plaotov. Moskva, Gosgortekhzdat, 1962. 210 p.
(MIRA 15:9)

(Mine ventilation)
(Coal mines and mining)

DUDIN, M., michman

Electric motors will not let you down. Starsh.-serzh. no.10:13
0 '61. (MIRA 15:2)

(Submarine boats)

DUDIN, M.M.

Ural Branch. Izv.ASiA no.3:155-156 '59.
(MIRA 13:6)

1. Zamestitel' rukovoditelya po nauchnoy rabote. Ural'skogo
filiala Akademii stroitel'stva i arkhitektury SSSR.
(Building research)

DUDIN, M.R. [deceased]; MOROZOVA, N.M.; GRIBANOV, B.V.

Shirokinskoye ore field. Trudy IGEM no.83:405-430 '63.
(MIRA 16:11)

DUDIN, N.

AID P - 4714

Subject : USSR/Aeronautics - Training (DOSAAF)
Card 1/1 Pub. 58 - 9/14
Author : Dudin, N., Hero of the Soviet Union, Head of the Aero-
club of Orlovskaya Oblast'.
Title : The Quality of the Instruction is Most Important
Periodical : Kryl. rod., 6, 13-14, Je 1956
Abstract : The author describes the organization of the training
of young pilots in the aeroclub of Orlovskaya Oblast'.
Some practical advice as to the methods of training
are given. Photo of the author.
Institution : None
Submitted : No date

DUDIN, N.

So that winter wouldn't take us by surprise. Sel'. stroi. no.9:
25-26 S '62. (MIRA 15:10)

1. Predsedatel' Kimovskogo meshkolkhosnogo stroitel'stva
Tul'skoy oblasti.

(Building—Cold weather conditions)

DUDIN, N.

Improve the procedure for issuing credit to state farms.
Den. i kred. 21 no.11:35-40 N '63. (MIRA 17:2)

1. Nachal'nik upravleniya finansirovaniya i kreditovaniya
sel'skogo khosyaystva Rossiyskoy respublikanskoy kontory
Gosbanka.

UDIN, P., inzhener-mekhanik.

Improve electrician's work organisation. Mast.ugl. 6 no.1:23 Ja
'57. (MIRA 10:4)

(Electricity in mining)

KLEMENT'YEV, V.V.; ZAVODCHIKOV, A.N.; DUDIN, R.N.; MIKHAYLOV, V.I.;
GANOVA, T.N.

Roasting of nickel matte in a fluidized bed furnace. TSvet. met.
36 no.6:29-34 Je '63. (MIRA 16:7)

(Nickel—Metallurgy) (Fluidization)

KIR'YANOV, A.K.; PAZDNIKOV, P.A.; BABACHANOV, I.F.; DUDIN, R.N.;
Prinimali uchastiye: BOGOMOLOV, I.Ye.; ROMANOV, G.N.;
SUKHORUKOV, Yu.P.; SAVINTSEV, P.R.

Slag depletion in tubular rotary furnaces. TSvet. met. 36 no.9:
29-32 3 '63. (MIRA 16:10)

SUSHIN, Vasily Yefimovich; KVASHENKO, Yuriy Kirillovich; DUDIN, Semen Ivanovich; ANDRONOVA, Lyubov' Nikanorovna; PETLAKH, Abram Smerkovich; GRIGOR'YEV, Vasily Nikolayevich; KOLYCHEVA, Nataliya Ivanovna; CHUGREYEVA, V.M., red.; TINDE, N.F., red.; BATYREVA, G.G., tekhn. red.; VINOGRADOVA, G.A., tekhn. red.

[Manual on auxiliary equipment and supplies for the textile industry] Spravochnik po vspomogatel'nyim izdelaniyam dlia tekstil'noi promyshlennosti. Pod red. V.E.Sushina i N.F.Tinde. Moskva, Rostekhsizdat, 1963. 432 p. (MIRA 16:5)
(Textile industry--Equipment and supplies)

DUDIN, S. Ia.; kumt. sel' skokhesyaystvennykh nauk

**Coordinating conference of scientific research institutions
on cattle farming. Zhivotnovodstvo 21 no.4:82-84 Ap '59.
(MIRA 12:5)**

**1. Zaveduyushchiy laborateriyey myasnogo skotovodstva
Vsesoyuznogo instituta zhivotnovodstva.
(Stock and stockbreeding--Research)**

MIXOYAN, A.; PODGORNYY, N.; ZOTOV, V.; PAVLOV, D.; DUDIN, Yu.; KOROLEV, D.;
MASTEROV, N.; NEVSKIY, Ye.; KLEMENCHUK, A.; ARSENT'YEV, V.; GAVRILOV, A.;
PARSHIKOV, M.; ZHARSKIY, A.; SOKOLOVSKIY, V.

Vladimir Evdokimovich Chalyi; obituary. Kons.i ov.prom. 17 no.12:
48 D '62. (MIRA 15:12)

(Chalyi, Vladimir Evdokimovich, 1905-1962)

DUDIN, V.A.

hole of blood vessels in the appearance and course of phantom
limb. Kh'rurgiya no.4:78 Ap '54. (MIRA 7:6)

(PHANTOM LIMB,

*vasc. vector in appearance & course)

DUDIN, V.A.

Changes in a muscle flap following transplantation in chronic osteomyelitis due to a gunshot wound. Ortop.travm. i protez. no.5: 76-78 S-0 '55. (MLEA 9:12)

1. Is Ivanovskogo oblastnogo gosspitalya (nach. - V.K.Shilov) dlya invalidov Otechestvennoy voyny.

(MUSCLES, transplantation

flap transpl. in chronic osteomyelitis due to gunshot, postop. changes of flap)

(OSTEOMYELITIS, surgery

muscle flap transpl., postop.changes of flap)

(WOUNDS AND INJURIES

gunshot causing osteomyelitis, surg., muscle flap transpl., postop. flap changes)

DUDIN, V. A. Cand Med Sci -- (diss) "Treatment of chronic gunshot osteomyelitis
(Clinical observation of plastic surgery on bone cavities by the muscle flap method)."
Ivanovo, 1958. 19 pp 20 cm. (Ivanovo State Med Inst), 120 copies
(KL, 7-57, 109)

66

DUDIN, V.A., kand.med.nauk

Myoplasty with a flap from the other extremity in treating bone cavities (cross transposition of muscle). Ortrop.travn. 1 protes. 21 no.3:7-10 Mr '60. (MIRA 14:3)

1. Is Ivanovskogo oblastnogo gospiatalaya invalidov Otechestvennoy voyny (nach. - V.K.Shilov).

(BONES—WOUNDS AND INJURIES)
(MUSCLES—TRANSPLANTATION)

DUDIN, V.A.

Amputations in spontaneous gangrene. Khirurgiia 36 no.3:111-114
Mr '60. (GANGRENE) (AMPUTATION) (MIRA 13.12)

DUDIN, V.A., kand.med.nauk (Ivanovo (obl.), ul. Radishcheva, d.21, kv.13)

Treatment of complicated defects of the tibia by Bogdanov's
shunt synostosis. Ortop. travm. i protez. 24, no.2:63-64, F'63.
(MIRA 16:10)

1. Iz Ivanovskogo oblastnogo gospiatalya invalidov Otechestvennoy
voyny (nachal'nik - V.K.Shilov).
(TIBIA — SURGERY)

DUBIN, V.A., kand. med. nauk

Primary skin grafting in injuries of the fingers. Khirurgia
39 no.5:107-111 My '63. (MIRA 17:1)

1. Iz Ivanovskogo oblastnogo gospihalya invalidov Otechest-
vennoy voyuy (nachal'nik V.K. Shilov).

DUDIN, V.A.

State and tasks in the use of the Siberian pine forests in Tomsk
Province. Truly Tom. obl kraeved. muz. 6 no.1:18-24 '62.

(MIRA 17:11)

DUDIN, V.F.

Dudin, V.F. "Replacement of petroleum by water," Trudy Brosn.
neft. in-ta, symposium 6, 1948, p. 19-24

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

DUDIN, V.P.

24749. DUDIN, V.P. O Modelirovani Nekotorykh Proctranstvennykh Zadach Teorii

Fil'Tratsii. Trudy Gosn. Neft. In-ta. SB. 7, 1949, S. 172-79

SO: Letopis' No. 33, 1949

FEDOROV, V.S.; DUDIN, V.P.; ZEMKOV, P.D.

Effect of the number of bit revolutions on the mechanical speed
of drilling in bulk destruction of rocks. Izv. vys. ucheb. zav.;
neft' i gaz no. 3:33-36 '58. (MIRA 11:7)

1. Gornenskiy neftyanoy institut.
(Oil well drilling)

DUDIN, V.F., ZENKOV, F.D., MOZHAROV, L.F.

New method of determining the elasticity (Young's modulus) of
rocks. Uch. zap. GOPI no.8:133-138 '58. (MIRA 13:8)
(Rocks) (Elasticity)

FEDOROV, V.S.; ZEMKOV, F.D.; DUDIN, V.F.

Laws governing the motion of the cutting instrument while entering the rock. Dokl. AN Azerb. SSR 14 no.6:433-437 '58. (MIRA 11:7)

1. Gornenskiy neftyanoy institut. Predstavleno akademikom AN AzerSSR Z.I. Khalilovym.

(Oil well drilling)

14(5)

AUTHORS:

Fedorov, V. S., Zenkov, F. D.,
Dudin, V. F.

SOV/152-59-3-8/25

TITLE:

The Connection Between the Number of Revolutions and the Axle Load, in Turbo Drilling, Which Guarantees an Efficacious Destruction of Rock (Zavisimost' meshdu chislom oborotov i osevoy nagruskey pri turbinnom burenii, obespechivayushchey effektivnoye razrusheniye gornykh porod)

PERIODICAL:

Investiya vysshikh uchebnykh zavedeniy. Nefi' i gas, 1959, Nr 3, pp 39-41 (USSR)

ABSTRACT:

At a constant temperature the stability τ of a loaded material depends on the weight σ :

$$\tau = A e^{-\alpha \sigma} \quad (1)$$

A and α are coefficients which depend on the material and the temperature. As all deformations that follow the law of Hooke have the same shape of the diagram and the same dependence of the deformation on time, an analogous function is to be expected for drilling. For the duration t_s of the contact of

Card 1/3

a milling cutter tooth with the rock the equation applies:

The Connection Between the Number of Revolutions
and the Axle Load, in Turbo Drilling, Which Guarantees
an Efficacious Destruction of Rock

SOV/152-59-3-8/25

$$t_s = \frac{60d}{sn} \quad (2)$$

d - diameter of the milling wheel, D - diameter of the drill
 z - number of teeth of the milling wheel, n - number of
revolutions. The force with which the tooth of the milling
cutter hits the rock is proportional to the axle load (Q):
 $\sigma = kQ$ (3) (k - coefficient that depends on the construction
of the drill). Therefrom results the equation:

$$\frac{60d}{sn} \geq A\sigma = kQ \quad (4)$$

An increase of the number of revolutions must, therefore, be
accompanied by an increase of the axle load in order to obtain
the same effect of destruction. The connection between the
axle pressure and the number of revolutions appears from the
equation (3):

Card 2/3

The Connection Between the Number of Revolutions
and the Axle Load, in Turbo Drilling, Which Guarantees
an Efficacious Destruction of Rock

SOV/152-59-3-8/25

$G \geq A_0 + B_0 \ln n$ (5), wherein $A_0 = \frac{\ln AD + \ln z - \ln d}{\alpha k}$ and

$B_0 = \frac{1}{\alpha k}$. The number of revolutions of turbo drills is determined
by the quantity Q of the scavenging liquid. Here, too, the axle
load must be increased when the supply of scavenging liquid is
increased. The connection appears from: $G \geq A_1 + B_0 \ln Q$ (6)

$A_1 = A_0 + B_0 \ln k_1$ (k_1 - coefficient that depends on the
construction of the turbo drill). When in hard rock and with a
given number of revolutions the load claimed in equation (5)
cannot be obtained, a drill with a higher tooth pitch is to be
applied. There are 2 figures and 4 Soviet references.

ASSOCIATION: Groznenskiy neftyanoy institut (Grozny Institute for Mineral
Oil)

SUBMITTED: December 28, 1958

Card 3/3

DUDIN, V.F.; SHAULOV, G.I.; KHAZHENYEV, S.N.

Experimental investigation of the relation between the speed
of an ultrasonic pulse and the temperature of MS-20 oil.
Izv. vys. ucheb. zav.; nef. i gaz 6 no.8:65-67 '63.

(MIRA 17:6)

1. Grozenskiy neftyanoy institut.

DEVIATKO, L.I.; DUDIN, V.F.

Comparison of energy losses in the interaction of teeth of
various shapes with rock. Izv. vys. ucheb. zav.; neft' i gaz
6 no.8:99-102 '63. (MIRA 17:6)

1. Gрозnenkiy neftyanoy institut.

DUDIN, V.F.; NAZHAROV, L.F.

Use of photomicrography for investigating the structure of the solid phase of lubricants at low temperatures. Zhur. nauch. i prikl. fot. i kin. 8 no.3:201-202 My-Je '63. (MIRA 16:6)

1. Neftyanoy institut, g. Gрозnyy.
(Lubrication and lubricants—Testing)
(Photomicrography)

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DUDIN, V. G.

DUDIN, V.

Metod Papavina i sokhraneniye parovoznogo parka. /Papavin's method and the maintenance of the locomotive yard/. (Zhel-dor. transport, 1944, no. 7, p. 48-56, sketch).
DLC: HE7.25

SO: SOVIET TRANSPORTATION AND COMMUNICATIONS. A BIBLIOGRAPHY, Library of Congress Reference Department, Washington, 1952, Unclassified.

BRINKSVICH, Dmitriy Logvinovich, inzhener; ~~MDIN~~, Vladimir Georgiyevich,
inzhener; LOGINOV, Aleksandr Nikolayevich, inzhener; RYSIN, A.Ye.,
inzhener, redaktor; KHITROV, P.A., tekhnicheskii redaktor

[Reducing idle time of locomotives in shop repair; the practice of
locomotive repair shops of the Juybyshev railroad] Sokrashchenie
prostota parovozov v depovskom remonte; opyt parovoznykh depo.
Kuibyshevskoi zh.d., Moskva, Gos. transp.zhel-dor. izd-vo, 1956.
90 p.

(Locomotives--Repairs)

(MLR 9:12)

BRENKEVICH, D.L.; DUDIN, V.G.

Antislip system of MB electric locomotives. Elek.i topl.
tiaga no.7:15-16 J1 '60. (MIRA 13:8)

1. Glavnyy inzh. sluzhby lokomotivnogo khozyaystva
Kuybyshevskoy dorogi (for Brenkevich). 2. Zamestitel'
nachal'nika otdela Syzranskogo otdeleniya (for Dudin).
(Electric locomotives--Equipment and supplies)

DUDIN, V.G.; LORMAN, L.M.

Further improvement of sand supply systems on electric locomotives.
Elek.i tepl.tiaga 5 no.4:8-9 Ap '61. (MIRA 14:6)

1. Glavnyy inzhener sluzhby lokomotivnogo khozyaystva Kuybyshevskoy dorogi (for Dudin).
 2. Mashal'nik otdela remonta elektropodvishnogo sostava Kuybyshevskoy dorogi (for Lorman).
- (Electric locomotives—Equipment and supplies)

SOV/86-59-1-28/39

AUTHOR: Dudin, V.G., Engr Capt

TITLE: Preflighting Aircraft Armament by Using the Maintenance-
Operation Line Method (Potochnyy metod podgotovki
vooruzheniya samoletov)

PERIODICAL: Vestnik vozdushnogo flota, 1959, Nr 1, pp 70-72 (USSR)

ABSTRACT: The author suggests that the maintenance-operation line method should be used when preflighting aircraft between flights, so that the time necessary for such operations can be reduced. The most labor consuming operations are the demounting and cleaning of cannons, the loading of ammunition, and the suspension of bombs and rockets. In order to carry out such operations more rapidly, specialists in each field of the aviation engineering service should take part. For this purpose the above mentioned labor consuming operations should be separated into several smaller operations, so that those personnel who lack the necessary skills and experience in armament maintenance can help ordnance personnel by carrying out the simpler operations.

Card 1/1

VOYSEKHOVSKIY, B.V.; NIKOLAYEV, V.P.; DUDIN, V.M.; MAYYER, O.F.;
CHERMENSKIY, G.P.

Some results of crushing rocks with a pulse water jet. Izv. SO
AN SSSR no.2 Ser. tekhn. nauk no.1:7-11 '63. (MIRA 16:8)

1. Institut gidrodinamiki Sibirskogo otdeleniya AN SSSR, Novosibirsk.
(Mining engineering) (Water jet)

DUDIN, V. N. 1

604. Opyr rabory tokarya Darnitskogo vagonoremontnogo zavoda MPS G.M. Bondar' po obtochke vagonnikh kolesnykh par po profilyu karaniya. M., PKB TSTUR. 1954 16s. s ill. 20 sm. (M-vo purey soobshcheniya SSSR. Glav. upr. lokomotiuroremontnymi i vagonoremontnymi zavodami. Inform.pis'mo po obmenu peredovym opytom. Vyp. No. 14 (227)). 1.000 ekz. B. ts. - Sost. ykozany v Vyp. DO.M. - (54-15029 zh) 625.2.012.3.002: 621.941 st.

SO: Knizhnaya Letopis, Vol 1, 1955

DUDIN, V.N. (Moskva)

Prevention and treatment of radiation sickness in pregnant
animals and their fetuses with cystamine and batyl alcohol.

Med.rad. no.11:82-84 '61.

(MIRA 14:11)

(ALCOHOL--THERAPEUTIC USE) (ETHYLAMINE)

(RADIATION SICKNESS) (PREGNANCY, COMPLICATIONS OF) (FETUS)

VARFOLOMEYEV, D.F.; BUGAY, Ye.A.; ~~DUDIN, V.N.~~; ZAGRYATSKAYA, L.M.; ANTIPIN,
M.K.; MARKINA, A.I.; POLINSKAYA, M.R.;

Recovering spent caustic using flue gases. Trudy Bash NIINP no.5:
319-322 '62. (MIRA 17:10)

1. Ordena Lenina Ufimskiy neftepererabatyvayushchiy zavod.

LATYSHEV, K.V.; YATSYNO, A.T.; DUDIN, V.V.; FILIPPOVA, L.S., red.;
GROMOV, Yu.V., tekhn. red.

[Repair and modernization of axle equipment with journal bearings] Remont i modernizatsiia buksovogo uzla s podshipnikami skol'sheniia. Moskva, Vses. izdatel'sko-poligr. ob'edinenie M-va putei soobshcheniia, 1961. 52 p. (MIRA 15:2)
(Car axles) (Bearings (Machinery))